

# Resource Summary Report

Generated by [kravitz2](#) on Sep 5, 2026

## Allergen Database for Food Safety

RRID:SCR\_008626

Type: Tool

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### Proper Citation

Allergen Database for Food Safety (RRID:SCR\_008626)

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### Resource Information

**URL:** <http://allergen.nihs.go.jp/ADFS/>

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**Description:** ADFS is a web server system that integrates a database of allergenic proteins for food safety. This allergen database for food safety was launched as a project of the Novel Foods and Immunochemistry of National Institute of Health Sciences, and this project was partly supported by a grant from the Ministry of Health, Labor and Welfare. To survey the sequence homology in assessing a potential of allergenicity of a protein in the food, the database has been constructed to include known allergens and B-cell epitope sequences. This database includes 13 (aero animal, aero fungi, aero insect, aero mite, aero plant, contact, food animal, food fungi, food plant, gliadin, protozoan, venom/salivary, and worm) categorized allergens based on allergen type in AllergenOnline, with their accession numbers, epitope information, 3D-structure information, and sugar-containing information. This site also provides sequence search tools for obtaining the sequence homology of a certain protein or peptide relating to allergens (BLAST, epitope(peptide) search). Furthermore, this site provides allergenicity prediction tools of a certain protein (FAO/WHO method, Motif-based method).

**Synonyms:** ADFS

**Resource Type:** data or information resource, database

**Resource Name:** Allergen Database for Food Safety

**Resource ID:** SCR\_008626

**Alternate IDs:** nif-0000-31995

**Record Creation Time:** 20220129T080248+0000

**Record Last Update:** 20260904T000313+0000

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### Ratings and Alerts

No rating or validation information has been found for Allergen Database for Food Safety.

No alerts have been found for Allergen Database for Food Safety.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 12 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [kravitz2](#) .

Zhang C, et al. (2025) A general lightweight image super-resolution with sharpening enhancement and double attention network. Scientific reports, 15(1), 40848.

Saad H, et al. (2024) Removal of bromophenol blue from polluted water using a novel azo-functionalized magnetic nano-adsorbent. RSC advances, 14(2), 1316.

Zanon Agapito-Tenfen S, et al. (2021) Untargeted Proteomics-Based Approach to Investigate Unintended Changes in Genetically Modified Maize for Environmental Risk Assessment Purpose. Frontiers in toxicology, 3, 655968.

Tung CH, et al. (2021) NlgPred: Class-Specific Antibody Prediction for Linear B-Cell Epitopes Based on Heterogeneous Features and Machine-Learning Approaches. Viruses, 13(8).

Khaikhah N, et al. (2020) Design of novel multiepitope constructs-based peptide vaccine against the structural S, N and M proteins of human COVID-19 using immunoinformatics analysis. PloS one, 15(10), e0240577.

Ghasem Zadeh Khorasani M, et al. (2019) Short- and Long-Range Mechanical and Chemical Interphases Caused by Interaction of Boehmite (?-AlOOH) with Anhydride-Cured Epoxy Resins. Nanomaterials (Basel, Switzerland), 9(6).

Ghasem Zadeh Khorasani M, et al. (2019) Insights into Nano-Scale Physical and Mechanical Properties of Epoxy/Boehmite Nanocomposite Using Different AFM Modes. Polymers, 11(2).

Kadam K, et al. (2017) AllerBase: a comprehensive allergen knowledgebase. Database : the journal of biological databases and curation, 2017.

Varallo FR, et al. (2017) Imputation of adverse drug reactions: Causality assessment in hospitals. PloS one, 12(2), e0171470.

Valenta R, et al. (2015) Food allergies: the basics. Gastroenterology, 148(6), 1120.

Juhász A, et al. (2015) ProPepper: a curated database for identification and analysis of peptide and immune-responsive epitope composition of cereal grain protein families.

Database : the journal of biological databases and curation, 2015.

Schein CH, et al. (2010) An Allergen Portrait Gallery: Representative Structures and an Overview of IgE Binding Surfaces. Bioinformatics and biology insights, 4, 113.